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500.43451X00

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicant(s): A. KANO, et al

Serial No.: 10/766,015

Filed: January 29, 2004

For: DISK ARRAY SYSTEM AND METHOD FOR CONTROLLING DISK
ARRAY SYSTEM

**INFORMATION DISCLOSURE STATEMENT
UNDER 37 CFR §1.97 & 1.98**

MS Amendment

Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

May 31, 2005

Sir:

In the matter of the above-identified application, applicants are submitting herewith copies of the documents listed in the attached form equivalent to Form PTO-1449 for the Examiner's consideration. Applicants hereby inform the Examiner that only copies of the foreign applications, publications and articles are being submitted herewith. No copies of the U.S. documents are being submitted.

This information disclosure statement is being submitted before the mailing date of a first office action on the merits.

Each of the documents listed on the attached form equivalent to Form PTO-1449 is in the English language.

It is respectfully requested that this information disclosure statement be considered by the Examiner.

Please charge any shortage in the fees due in connection with the filing of this paper, including extension of time fees, to the deposit account of MATTINGLY, STANGER, MALUR & BRUNDIDGE, P.C. Deposit Account No. 50-1417 (500.43451X00) please credit any excess fees to such deposit account.

Respectfully submitted,



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Carl I. Brundidge
Registration No. 29,621
MATTINGLY, STANGER, MALUR & BRUNDIDGE, P.C.

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U.S. PATENT DOCUMENTS

EXAMINER INITIAL	DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
	6 6 3 6 9 3 4	10/03	Linnell			
	5 9 5 1 6 9 1	09/99	Ng et al			
	6 1 1 5 7 9 7	09/00	Kanda et al			
	6 1 7 3 3 6 0	1/01	Beardsley et al			
	6 5 5 3 4 0 8	4/03	Merrell et al			
	6 6 0 6 6 9 0	8/03	Padovano			
	6 7 7 2 3 6 5	8/04	Obara			

FOREIGN PATENT DOCUMENTS

DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	ABSTRACT
					YES NO
0 8 4 4 5 6 1	5/98	Katsuragi et al			

OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)

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(Form PTO-1449 [6-4])

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	6 1 0 8 7 4 8	08/00	Ofek et al			
	6 5 1 0 4 9 1	1/03	Franklin et al			
	6 6 5 1 1 3 7	11/03	Baek et al			
	6 7 0 8 2 3 2	03/04	Obara et al			
	5 5 4 6 5 5 8	8/96	Jacobson et al			

FOREIGN PATENT DOCUMENTS

DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	ABSTRACT
					YES NO
1 3 1 5 0 7 4	5/03	European			

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	2 0 0 4	0	1	9	3	7	6	0	9/04	Matsunami et al			
	2 0 0 4	0	1	9	9	5	1	5	10/04	Penny et al			
	2 0 0 2	0	1	3	8	7	0	5	9/02	Suzuki et al			
	2 0 0 3	0	2	2	1	0	7	7	11/03	Ohno et al			
	2 0 0 4	0	0	1	0	6	6	2	1/04	Aruga			
	2 0 0 4	0	1	1	7	5	1	7	6/04	Beauchamp et al			

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2 0 0 4	0 1 2 8 6 2 7	7/04	Zayas			
2 0 0 3	0 0 9 7 6 0 7	5/03	Bessire			
2 0 0 4	0 0 7 8 7 0 7	4/04	Apperley et al			
2 0 0 4	0 0 7 3 7 4 7	4/04	Lu			
2 0 0 4	0 1 7 7 2 1 8	9/04	Meehan et al			

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	5 6 0 3 0 0 3	2/97	Akizawa et al			
	5 8 3 8 8 9 1	11/98	Mizuno et al			
	5 8 6 7 7 3 6	2/99	Jantz			
	5 8 8 4 0 9 8	3/99	Mason, Jr.			
	6 2 1 9 7 5 2	4/01	Sekido			
	6 2 2 3 2 4 9	4/01	Kato et al			
	6 5 4 9 9 7 8	5/03	Mansur et al			
	6 6 4 0 2 7 8	10/03	Nolan et al			
	6 6 8 4 2 9 5	1/04	Fujimoto et al			
	6 7 4 5 2 8 7	6/04	Fujimoto et al			
	6 2 0 1 6 9 2	3/01	Gamble et al			

FOREIGN PATENT DOCUMENTS

	DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	ABSTRACT	
						YES	NO
2 0 0 2	3 3 3 9 5 4	11/02	Japan				
2 0 0 4	1 7 8 5 5 7	6/04	Japan				

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	6 6 2 8 5 1 3	9/03	Gallagher et al			
	6 8 3 1 8 3 9	12/04	Bovell			
	6 0 6 1 7 5 0	5/00	Beardsley et al			
	6 7 6 3 4 3 6	7/04	Gabber et al			
	6 7 9 2 4 8 6	9/04	Hanan et al			
	6 1 3 7 6 7 9	10/00	Chang			
	6 3 5 1 3 7 5	2/02	Hsieh et al			
	6 4 8 4 2 3 6	11/02	Fujimoto et al			
	6 4 8 4 2 6 9	11/02	Kopylovitz			
	6 7 2 8 9 2 2	4/04	Sundaram et al			
	5 4 7 5 8 1 4	12/95	Tomimitsu			

FOREIGN PATENT DOCUMENTS

DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	ABSTRACT
					YES NO
0 2 1 8 8 3 5		Japan			

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	6 5 0 2 1 0 8	12/02	Day, III, et al			
	6 6 5 8 5 9 2	12/03	Cohen et al			
2 0 0 2	0 0 0 7 4 6 9	1/02	Taketa et al			
2 0 0 2	0 0 4 0 4 1 3	4/02	Okada et al			

FOREIGN PATENT DOCUMENTS

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						YES	NO
2 0 0 1	1 4 2 6 5 0	5/01	Japan				
2 0 0 2	1 5 0 7 4 6	5/02	Japan				

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	2 0 0 3	0	0	9	7	5	0	4	5/03	Oeda et al			
	2 0 0 3	0	1	1	5	4	3	7	6/03	Tomita			
	2 0 0 3	0	1	4	5	1	6	7	7/03	Tomita			
	2 0 0 3	0	1	9	6	0	0	2	10/03	Nakayama et al			
	2 0 0 3	0	1	9	6	1	4	7	10/03	Hirata et al			

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2 0 0 4	0 0 2 4 9 3 0	2/04	Nakayama et al			
2 0 0 4	0 0 6 8 6 1 0	4/04	Umberger et al			
2 0 0 4	0 1 0 7 3 2 5	6/04	Mori			

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	2 0 0 1	0	0	4	6	1	1	8	11/01	Yamanashi et al			
	2 0 0 1	0	0	5	4	1	3	6	12/01	Ninomiya et al			
	2 0 0 1	0	0	5	6	5	2	7	12/01	Ninomiya et al			
	2 0 0 2	0	1	6	2	0	5	7	10/02	Talagala			
	2 0 0 3	0	0	4	1	2	0	1	2/03	Rauscher			
	2 0 0 3	0	1	7	2	1	5	0	9/03	Kennedy			
	2 0 0 4	0	1	1	7	5	3	4	6/04	Parry et al			
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	2 0 0 3	0	0	4	1	2	7	8	2/03	Lin			
	2 0 0 4	0	1	1	1	5	6	0	6/04	Takase et al			
	2 0 0 4	0	2	6	7	5	1	6	12/04	Jibbe et al			
	2 0 0 5	0	0	2	7	9	0	0	2/05	Petty			

FOREIGN PATENT DOCUMENTS

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2 0 0 3	0 2 3 1 4 2 0	12/03	Kano et al			
2 0 0 4	0 0 8 8 4 8 2	5/04	Tanzer et al			
2 0 0 4	0 1 6 9 9 9 6	9/04	Paul et al			
2 0 0 1	0 0 1 9 5 0 9	9/01	Aho et al			
2 0 0 3	0 0 4 6 4 6 0	3/03	Inoue et al			
2 0 0 4	0 1 3 9 2 6 0	7/04	Steinmetz			
2 0 0 4	0 1 4 8 3 2 9	7/04	Ogasawara et al			

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	2 0 0 2	0	0	4	9	8	8	6	4/02	Furuya et al			
	2 0 0 2	0	1	4	4	0	5	7	10/02	Li et al			
	2 0 0 3	0	1	3	1	2	9	1	7/03	Morrison et al			
	2 0 0 3	0	1	6	7	4	3	9	9/03	Talagala et al			
	2 0 0 3	0	0	9	7	4	8	7	5/03	Rietze et al			
	2 0 0 4	0	1	1	1	4	8	5	6/04	Mimatsu et al			
	2 0 0 4	0	2	6	8	0	3	7	12/04	Buchanan, Jr. et al			
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	2 0 0 4	0	1	4	8	4	6	0	7/04	Steinmetz			
	2 0 0 4	0	1	4	8	4	6	1	7/04	Steinmetz			
	2 0 0 4	0	2	3	6	9	0	8	11/04	Suzuki et al			
	2 0 0 3	0	1	1	0	3	3	0	6/03	Fujie et al			
		5	8	4	5	3	1	9	12/98	Yorimitsu			
		6	4	4	9	7	0	9		Gates			

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	5 8 2 2 7 8 2	10/98	Humlicek et al			
2 0 0 2	0 0 6 2 4 5 4	5/02	Fung			

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DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	ABSTRACT
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2 3 6 1 4 6	2/03	Japan			

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2 0 0 3	0 1 3 5 5 7 7	7/03	Weber et al			

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					YES NO
1 0 3 0 1 7 2 0	11/98	Japan			Eng.Trans

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	ESG Product Brief EMC, March 2003, CIARiiON WITH ATA, pp. 1-2.
	EMC CLARiiON Backup Storage Solutions Back-up-to-Disk Guide with LEGATO Networker Diskbackup Option (DBO), Engineering White Paper, 4/8/2003, pp. 1-28.

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2 0 0 1	0 0 1 4 9 5 6	8/01	Nagata et al			

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2 0 0 1	1 6 7 0 4 0	6/01	Japan			XX	
2 0 0 1	3 3 7 8 6 8	12/01	Japan			XX	
0	9 3 3 0 1 8 4	12/97	Japan			XX	

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	EMC CLARiiON Backup Storage Solutions Backup-to-disk Guide with Computer Associates' BrightStor ARCserve Backup, Engineering White Paper, 4/16/2003, pp. 1-28.
	EMC CLARiiON Backup Storage Solutions Backup-to-Disk: An Overview, Engineering White Paper, 3/3/2003, pp. 1-10.
	EMC CLARiiON Backup Storage Solutions Backup-to-Disk Guide with CommVault Galaxy, Engineering White Paper, 3/3/2003, pp. 1-26.
	EMC CLARiiON Backup Storage Solutions Backup-to-Disk Guide with Computer Associates BrightStor Enterprise Backup, Engineering White Paper, 4/16/2003, pp. 1-23.

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